9/1/24

[MODIFIED PROGRAM, REFER THIS]

LAB- Program 5

Bank (Savings & current Account)

```
import java.util.Scanner;
class Account
{
    String cust_name;
    int Accno;
    double balance = 0;
    public void get_details()
    {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the customer
        name: ");
        cust_name = scanner.next();
        System.out.println("Enter the account
        number: ");
        Accno = scanner.nextInt();
    }

    public void display_details(String Acc_type)
    {
        System.out.println("Customer Name: "+
            cust_name);
        System.out.println("Account Number: "+
        Accno);
        System.out.println("Account type: "+
        Acc_type);
        System.out.println("Balance: " + balance);
    }
}
```

```
class Sav_acc extends Account
{
    double interestRate = 0.05;

    public Sav_acc(double balance)
    {
        this.balance = balance;
    }

    public void deposit_s()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the deposit
        amount : ");
        double amount = s.nextDouble();
        balance += amount;
        System.out.println("Deposit of "+ amount
        + " successful.");
    }

    public void computeInterest()
    {
        double interest = balance * interestRate;
        balance += interest;
        System.out.println("Interest of "+
        interest + " computed and added to
        the account.");
    }

    public void withdraw_s()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the withdrawal
```

```
            amount: ");
            double amt = s.nextDouble();
            if (balance >= amt)
            {
                balance -= amt;
                System.out.println("Withdrawal
                of " + amt + " successful");
            }
            else
            {
                System.out.println("Insufficient
                funds. Withdrawal not
                permitted.");
            }
        }
    }
    class Cur_acc extends Account
    {
        public Cur_acc(double balance)
        {
            this.balance = balance;
        }

        public void deposit_c()
        {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter the deposit
            amount: ");
            double amount = s.nextDouble();
            balance += amount;
            System.out.println("Deposit of " +
            amount " + amount + " successful.");
        }
```

```
public void Cheque_book()
{
    String phone_no;
    String address;
    Scanner s = new Scanner(System.in);
    System.out.println("Enter your
    phone number:");
    phone_no = s.next();
    System.out.println("Enter your
    address :");
    address = s.next();
    System.out.println("Cheque book
    request processed successfully.");
}

public void check_min_bal()
{
    double min_bal = 1000;
    double service_charge = 50;
    if (balance < min_bal)
    {
        balance -= service_charge;
        System.out.println("Service charge
        of " + service_charge + " imposed
        due to balance falling below
        minimum.");
    }
    else
    {
        System.out.println("Current balance is
    }
}
```

```
public void withdraw_c()
{
    Scanner s= new Scanner(System.in);
    System.out.println(" Enter the
    withdrawal amount ");
    double amt = s.nextDouble();
    if (balance >= amt)
    {
      Syst
      balance -= amt;
      System.out.println("Withdrawal of
        " + amt + " Successful ");
    }
    else
    {
      System.out.println(" Insufficient
      funds. Withdrawal not permitted. ");
    }
  }
}
class BankAK // Execution starts here
{
  public static void main(String args[])
  {
    Scanner p = new Scanner(System.in);
    System.out.println("Enter the type
    of account (Savings or Current): ");
    String Acc_type = p.next();

valid ");    if (Acc_type.equals("Savings")
    {
      Sav_acc sa = new Sav_acc(0);
      sa.get_details();
```

```
int choice;
do {
System.out.println("\t\t MENU\t\t");
System.out.println("1. Deposit\t 2. Withdraw\t 3. Compute interest\t
4. Display Account details\t 5. Exit");
System.out.println("Enter choice: ");
choice = p.nextInt();
switch (choice)
{
    case 1:
        sa.deposit_s();
        break;
    case 2:
        sa.withdraw_s();
        break;
    case 3:
        sa.computeInterest();
        break;
    case 4:
        sa.display_details(Ace type);
        break;
    case 5:
        System.out.println("
        Exiting...");
        break;
    default:
        System.out.println("Invalid
        choice");
}
}while(choice!=5);
}
```

```
else if(Acc_type.equals("Current"))
{
    Cur_ac ca = new Cur_acc(0);
    ca.get_details();
    int choice;
    do{
    System.out.println("\t\t MENU \t\t");
    System.out.println("1. Deposit \t
    2. Withdrawal \t 3. Avail Cheque book \t
    4. Check min balance \t 5. Display
    details \t 6. Exit ");
    System.out.println("Enter choice: ");
    choice = p.nextInt();
    switch(choice)
    {
        case 1: ca.deposit_c();
                break;
        case 2: ca.withdraw_c();
                break;
        case 3: ca.Cheque_book();
                break;
        case 4:
                ca.check_min_bal();
                break;
        case 5:
                ca.display_details(Acc_type);
                break;
        case 6:
                System.out.println("Exiting...");
                break;
        default:
                System.out.println("Invalid
                choice");
    }
```

```
        }while(choice!=6);
    }
    else
    {
        System.out.println("Invalid account type");
    }
}
}
```

OUTPUT:

```
Enter the type of account(Savings or Current):
Savings
Enter the customer name:
Krishna
Enter the account number:
12345

                MENU
1. Deposit 2. Withdraw 3. Compute interest
4. Display Account details 5. Exit
Enter choice:
1
Enter the deposit amount:
2000
Deposit of 2000.0 successful

                MENU
1. Deposit 2. Withdraw 3. Compute interest
4. Display Account details 5. Exit
Enter choice:
2
Enter the withdrawal amount:
200
Withdrawal of 200.0 successful
```

MENU

1. Deposit 2. Withdraw 3. Compute interest
4. Display Account details 5. Exit
Enter choice:
3
Interest of 90.0 computed and added to ~~amount~~ account.
Enter choice:
4
Customer Name: Krishna
Account Number: 12345
Account Type: Savings
Balance: 1890.0

MENU

1. Deposit 2. Withdraw 3. Compute interest
4. Display Account details 5. Exit
Enter choice:
5
Exiting...

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